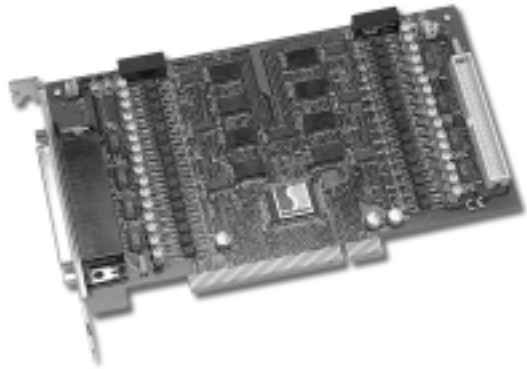


## PISO-P32C32

### 32-Channel Optically Isolated Digital Input and 32-Channel Optically Digital Open-Collector Output Board



### Functional Description

The PISO-P32C32 has 32 channels of optically isolated digital input and 32 channels of optically isolated digital output, arranged into four isolated banks. Each input channel use a photo-coupler input which allows either internal isolated power supply or external power selected by jumper. Each digital output offers a darlington transistor and integral suppression diode for inductive load. Isolated input channels 0-15 are designed into group A and channels 16-31 are designed into group B. Isolated output channels are designed into group C and Group D. The power supply of the input port may use the external power or internal power The power supply of the output port should use the external power.

This interface board is easily installed in any PC. The board interface to field logic signals, eliminating ground-loop problems and isolating the host computer from damaging voltages. The PISO-P32C32 has one 37-pin D-Sub connector and one 40-pin male header. The 40-pin to DB-37 flat-cable is used to fix with the case. The user can connect the digital signal through the second D-Sub connector. Each D-Sub connector contains 16 input channels and 16 output channels

### Features

- 32-channel optically isolated digital input
- 32-channel optically isolated digital output
- DC/DC converter built-in
- Four isolated bank.
- 3000V DC isolation voltage

### Applications

- Factory automation
- Product test
- Laboratory automation

### Specifications

#### Isolated Input

- Type: Isolated current input
- Isolation voltage: 3750V(Using external power); 3000V ( Using internal power)
- Input voltage: 3.5V to 30V
- Input impedance: 1.2K / 1W
- Response time: 1KHz Max.

#### Isolated Output

- open collector: 125mA/channel
- External voltage: 30V (Max.)
- Response time: 10KHz (Max.)

**Power requirements:** +5V/ 600mA

### Environmental

- Operating Temperature: 0 to 50 °C
- Storage Temp.: -20 °C to 70 °C
- Humidity: 0 to 90 % non-condensing
- Dimension: 180 mm x 105 mm

### Software

- PISO-DIO Development Toolkit for DOS
- PISO-DIO Development Toolkit for Win95
- PISO-DIO Development Toolkit for WinNT

### Order Description

- PISO-P32C32: 32-channel isolated digital input and 32-channel isolated digital output board

### Options

- DB-37: Directly connect signals to the back of PISO-P32C32
- DN-37: I/O Connector Block with DIN Rail-mounting and 37-pin D-Sub connector.
- PISO-DIO LabVIEW Development Toolkit for Win95
- PISO-DIO LabVIEW Development Toolkit for WinNT

#### Pin Assignment

